This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- / BLACK OR VERY BLACK AND WHITE DARK PHOTOS
 - GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.

FILING DATE: December 30, 2003

ITLE: Disease Prevention by Reactivation of the Thymus

DOCKET NO.: NOR-014CP4/286336.153

___ OF 45

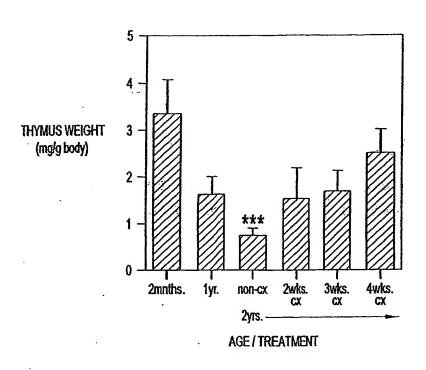


Figure 1A

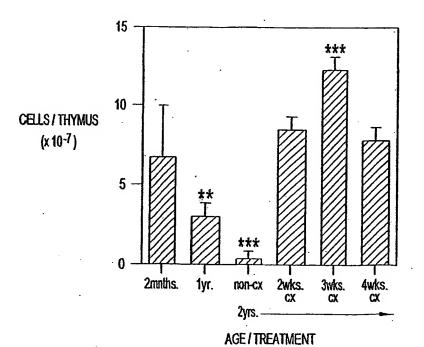


Figure 1B

FILING DATE: December 29, 2003

TITLE: Disease Prevention by Reactivation of the Thymus DOCKET NO.: NOR-014CP4/286336.153

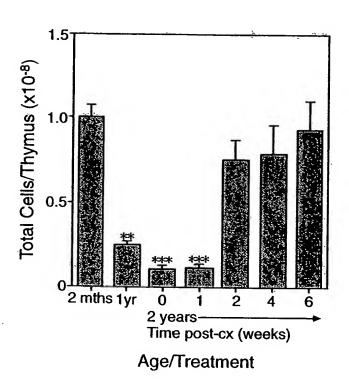


FIGURE 1 c

FILING DATE: December 36, 2003

ITLE: Disease Prevention by Reactivation of the Thymus

DOCKET NO.: NOR-014CP4/286336.153

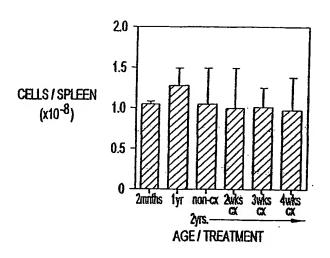


Figure 2A

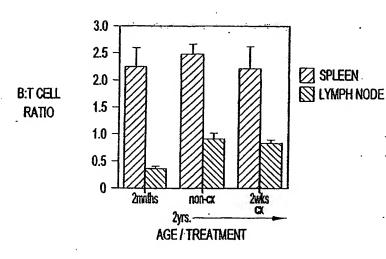


Figure 2 c

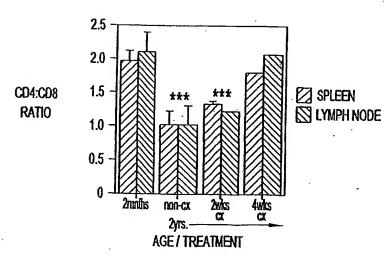


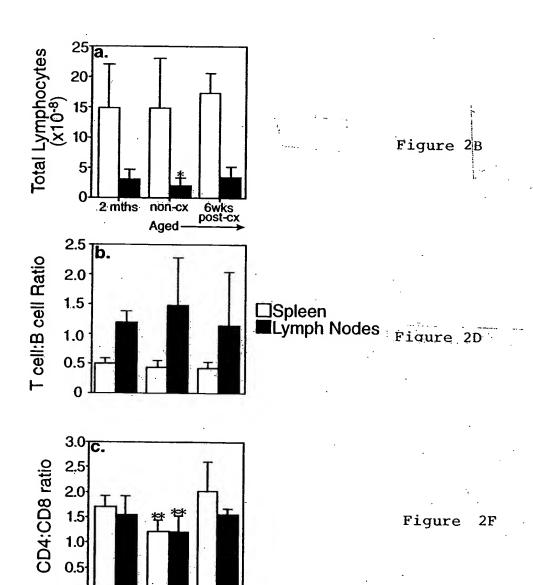
Figure 2

FILING DATE: December **36**, 2003

E: Disease Prevention by Reactivation of the Thymus

DOCKET NO.: NOR-014CP4/286336.153

<u>4</u> OF 45



Age/Treatment

non-cx

Aged-

6wks post-cx

2 mths

APPLICANT: Boyd TBD APPLN. NO.:

FILING DATE: December 30, 2003

Disease Prevention by Reactivation of the Thymus

DOCKET NO.: NOR-014CP4/286336.153 \$\sumeq \text{OF 45}\$

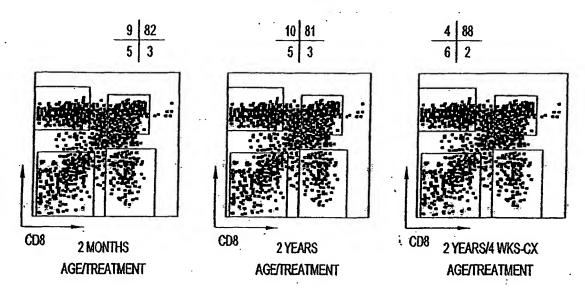
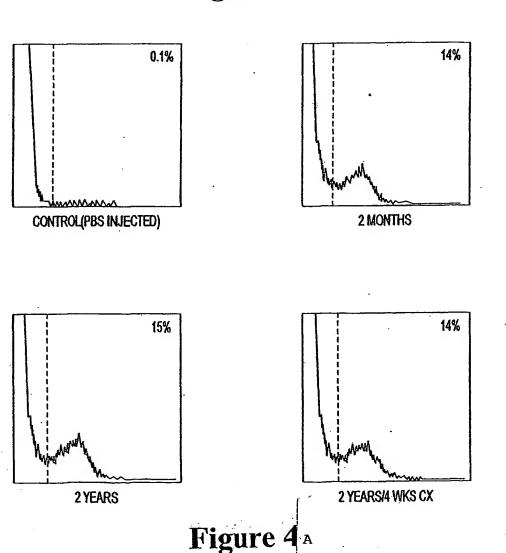


Figure 3



FILING DATE: December 2003
TITLE: Disease Prevention by Reactivation of the Thymus
DOCKET NO.: NOR-014CP4/286336.153



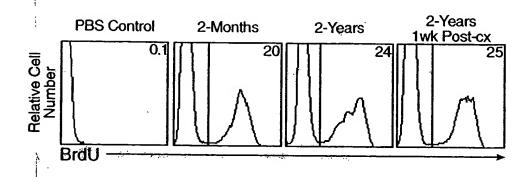
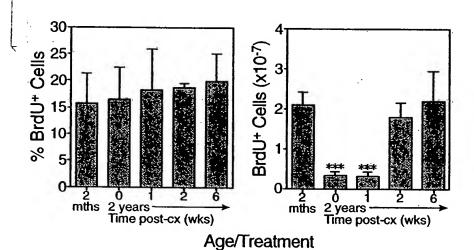
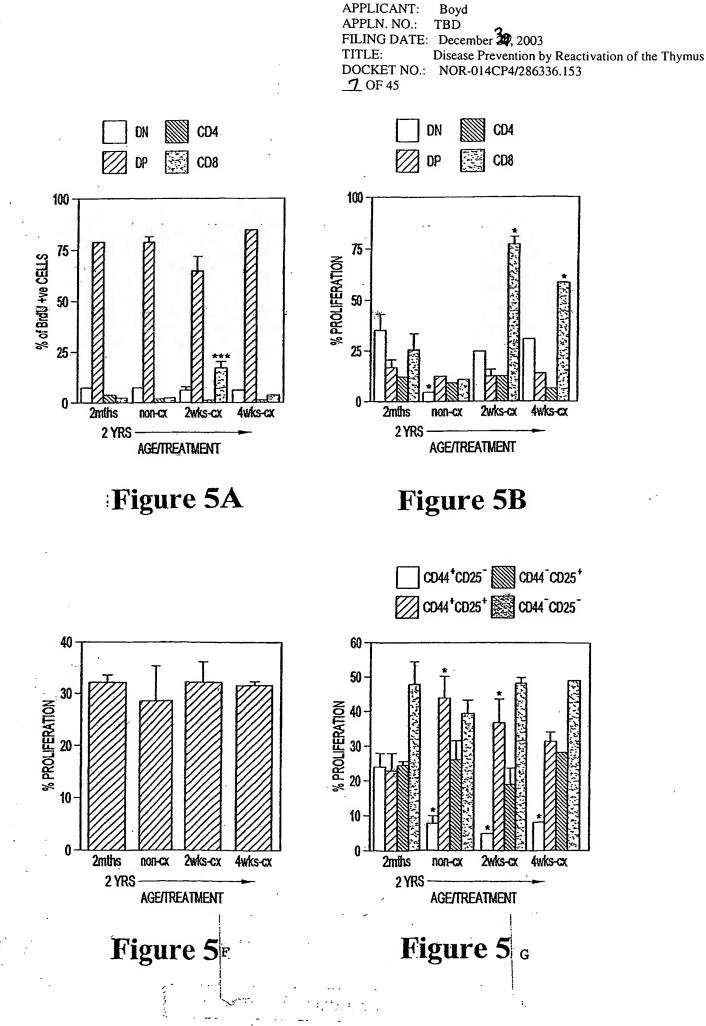


Figure 4C

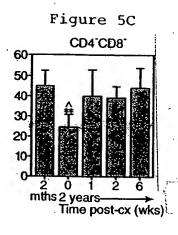


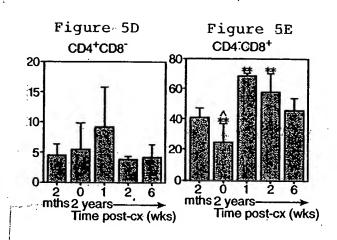


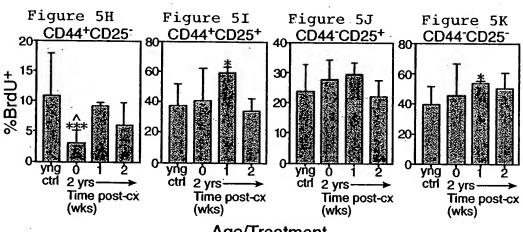
FILING DATE: December 2 2003

Disease Prevention by Reactivation of the Thymus

DOCKET NO.: NOR-014CP4/286336.153 **2** OF 45







Age/Treatment

APPLICANT: Boyd APPLN. NO.: TBD FILING DATE: December 30, 2003 Disease Prevention by Reactivation of the Thymus

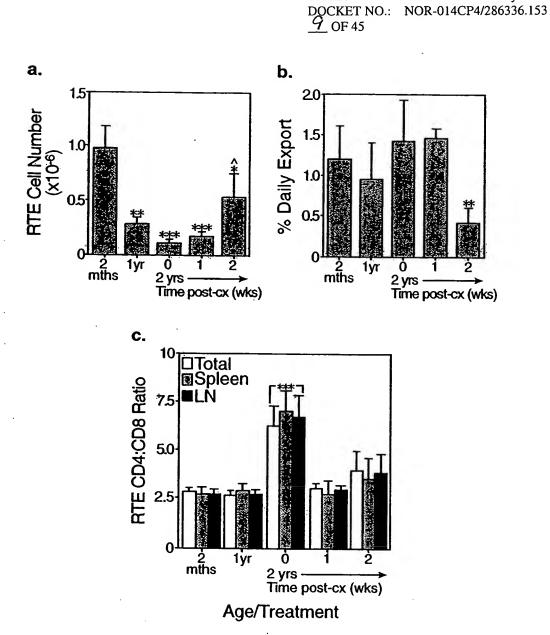


FIGURE 6.

APPLICANT: Boyd TBĎ APPLN. NO.:

FILING DATE: December **3Q** 2003

TITLE: Disease Prevention by Reactivation of the Thymus DOCKET NO.: NOR-014CP4/286336.153

<u>/0</u> OF 45

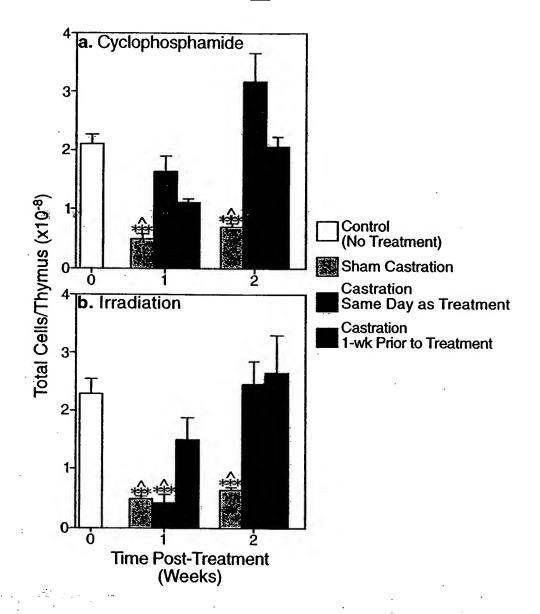


FIGURE 7.

FILING DATE: December 30 2003

TLE: Disease Prevention by Reactivation of the Thymus

DOCKET NO.: NOR-014CP4/286336.153

<u>//</u> OF 45

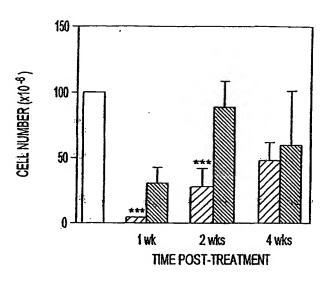
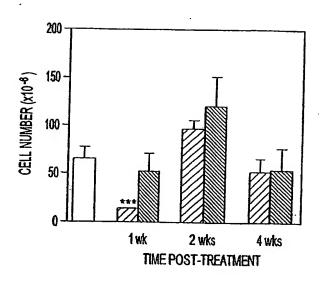


Figure 8A



CYCLOPHOSPHAMIDE ALONE

CYCLOPHOSPHAMIDE AND CASTRATION (SAME DAY)

Figure 8B

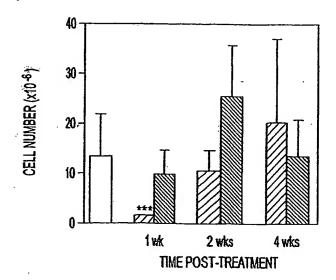
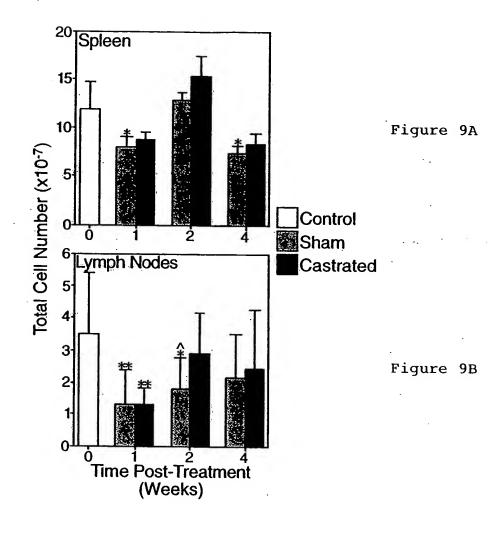


Figure 8c

FILING DATE: December 2003
TITLE: December 2003
Disease Prevention by Reactivation of the Thymus

DOCKET NO.: NOR-014CP4/286336.153

_/2-OF 45



FILING DATE: December 30, 2003

TITLE: Disease Prevention by Reactivation of the Thymus

DOCKET NO.: NOR-014CP4/286336.153

<u>/3</u> OF 45

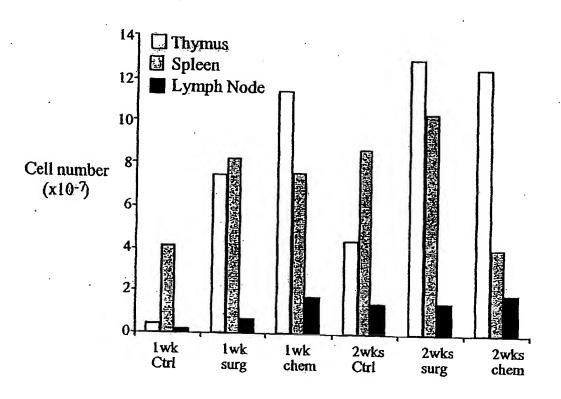
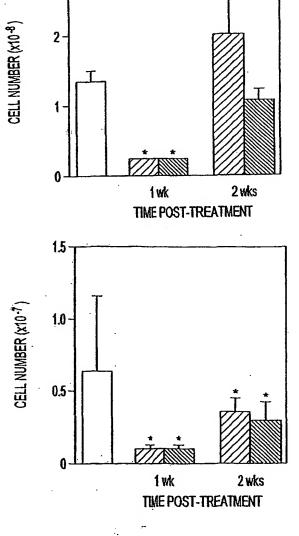


Figure 10

APPLICANT: Boyd APPLN. NO.: TBD FILING DATE: December 39, 2003 Disease Prevention by Reactivation of the Thymus DOCKET NO.: NOR-014CP4/286336.153 **14** OF 45 Figure 11A 2 wks TIME POST-TREATMENT CONTROL IRRADIATION ALONE CASTRATION/IRRADIATION one week prior to treatment Figure 11B Figure 11c



.1 wk

3

2

CELL NUMBER (x10-8)

APPLICANT: Boyd TBĎ APPLN. NO.: FILING DATE: December 29, 2003 Disease Prevention by Reactivation of the Thymus DOCKET NO.: NOR-014CP4/286336.153 15 OF 45 Figure 12A CONTROL IRRADIATION ALONE CASTRATION/IRRADIATION (SAME DAY) Figure 12B Figure 12c

2 wks

2 wks

2 wks

1 wk

1 wk

1 wk

TIME POST-TREATMENT

TIME POST-TREATMENT

TIME POST-TREATMENT

3

2-

1 -

2.0

1.5

1.0

.5

0

1.5

1.0

0.5

CELL NUMBER (x10-8)

CELL NUMBER (x10-8)

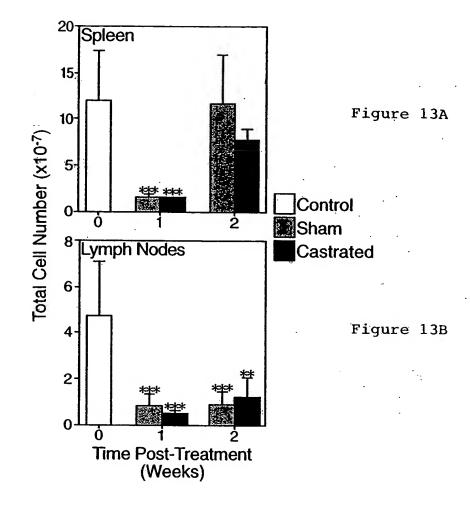
CELL NUMBER (x10-8)

APPLICANT: Boyd TBĎ APPLN. NO.:

FILING DATE: December 29, 2003

Disease Prevention by Reactivation of the Thymus DOCKET NO.: NOR-014CP4/286336.153





APPLICANT: APPLN. NO.:

TITLE:

Boyd TBD FILING DATE: December 26, 2003

Disease Prevention by Reactivation

DOCKET NO.: NOR-014CP4/286336.153

LN size post-HSV inoculation

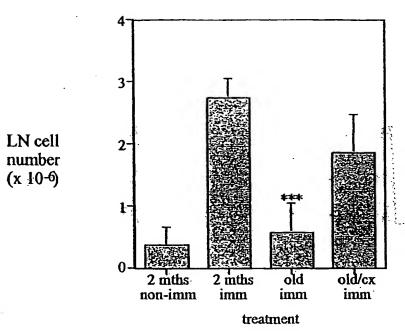


Fig. 14A

Activated cell numbers

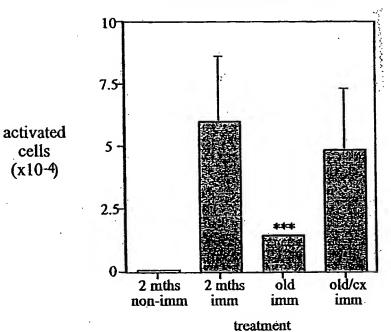


Fig. 14B.

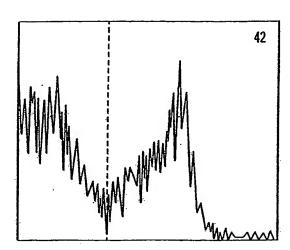
Boyd TBD APPLICANT: APPLN. NO.:

FILING DATE: December 26, 2003

TITLE: Disease Prevention by Reactivation of the Thymus

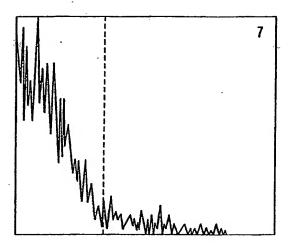
DOCKET NO.: NOR-014CP4/286336.153

12 OF 45



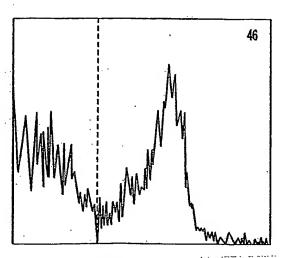
2 MONTHS

Figure 15A



18 MONTHS

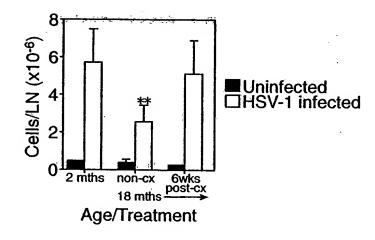
Figure 15B



18 MONTHS **CASTRATED**

Boyd TBD APPLICANT: APPLN. NO.:

FILING DATE: December 29, 2003
TITLE: Disease Prevention by Reactivation of the Thymus
DOCKET NO.: NOR-014CP4/286336.153
19 OF 45



APPLICANT: Boyd TBD APPLN. NO.:

FILING DATE: December **36**, 2003

TITLE: Disease Prevention by Reactivation of the Thymus DOCKET NO.: NOR-014CP4/286336.153

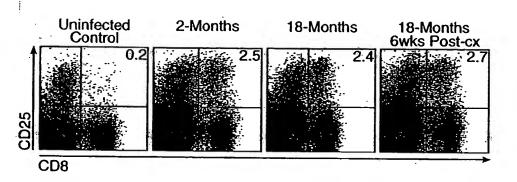


Figure 17A

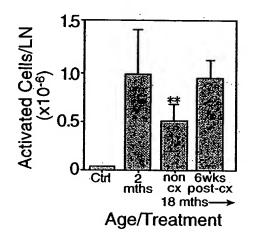


Figure 17B

FILING DATE: December 30, 2003

E: Disease Prevention by Reactivation of the Thymus

DOCKET NO.: NOR-014CP4/286336.153

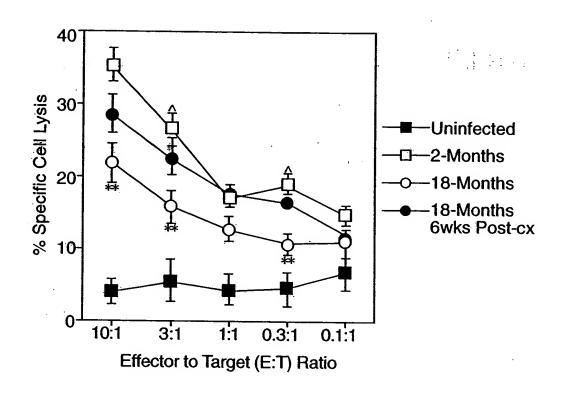
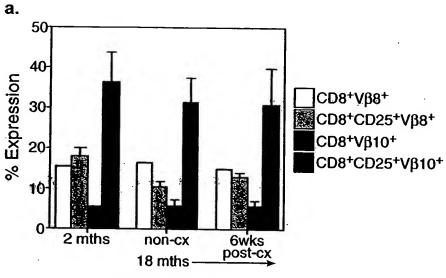


FIGURE 18

FILING DATE: December 30, 2003

TITLE: Disease Prevention by Reactivation of the Thymus

DOCKET NO.: NOR-014CP4/286336.153



Age/Treatment

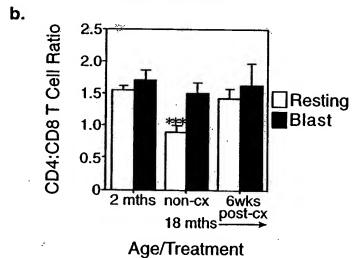


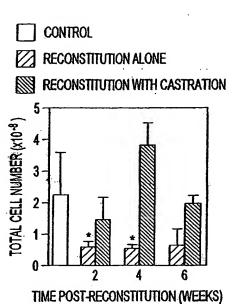
FIGURE 19

FILING DATE: December 30, 2003

Disease Prevention by Reactivation of the Thymus

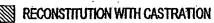
DOCKET NO.: NOR-014CP4/286336.153

23 OF 45



CONTROL

RECONSTITUTION ALONE



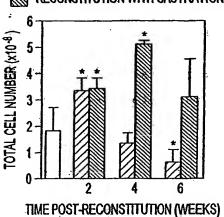


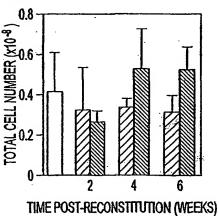
Figure 20B

Figure 20A



RECONSTITUTION ALONE

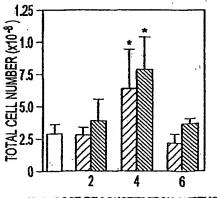
RECONSTITUTION WITH CASTRATION



CONTROL

RECONSTITUTION ALONE

RECONSTITUTION WITH CASTRATION



TIME POST-RECONSTITUTION (WEEKS)

Figure 20c

Figure 20D

FILING DATE: December 34, 2003

TITLE: Disease Prevention by Reactivation of the Thymus DOCKET NO.: NOR-014CP4/286336.153

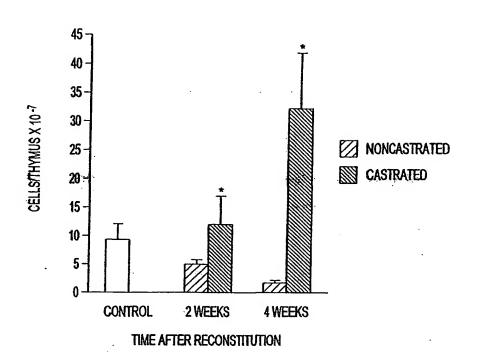


Figure 21A

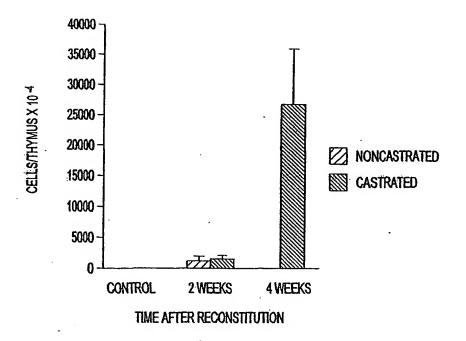


Figure 21B

Boyd TBD APPLICANT: APPLN. NO.:

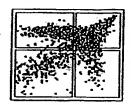
FILING DATE: December 27, 2003

TITLE: Disease Prevention by Reactivation of the Thymus

DOCKET NO.: NOR-014CP4/286336.153

25 OF 45

AGE MATCHED



NON-CASTRATED

CASTRATED

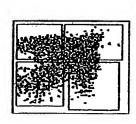
2 WEEKS POST RECONSTITUTION



9



4 WEEKS POST RECONSTITUTION



CD8

FILING DATE: December 34, 2003

TITLE: Disease Prevention by Reactivation of the Thymus DOCKET NO.: NOR-014CP4/286336.153

26 OF 45

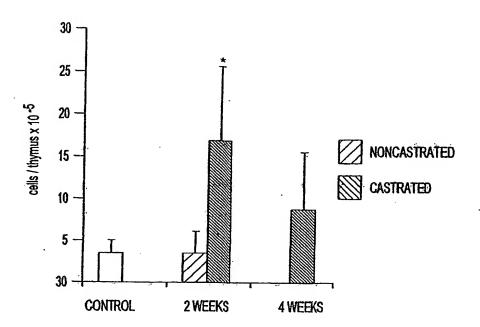
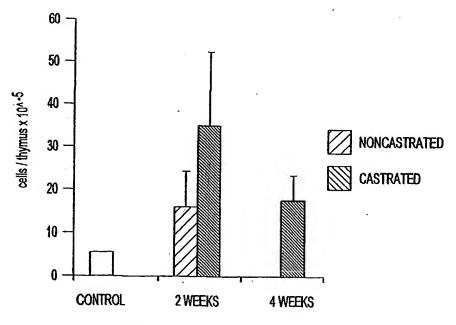


Figure 23A

TIME AFTER RECONSTITUTION

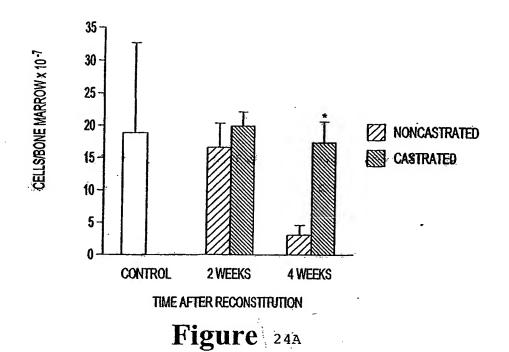


TIME AFTER RECONSTITUTION

Figure 23B

FILING DATE: December 34 2003

TITLE: Disease Prevention by Reactivation of the Thymus DOCKET NO.: NOR-014CP4/286336.153



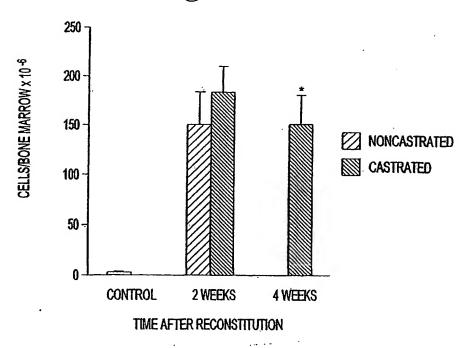


Figure 24B

FILING DATE: December 2003

Disease Prevention by Reactivation of the Thymus DOCKET NO.: NOR-014CP4/286336.153 **28** OF 45

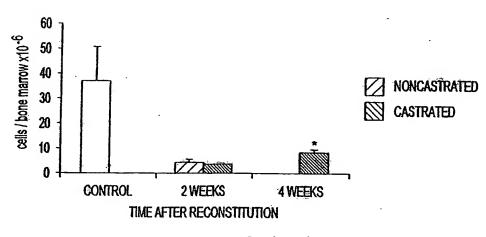


Figure 25A

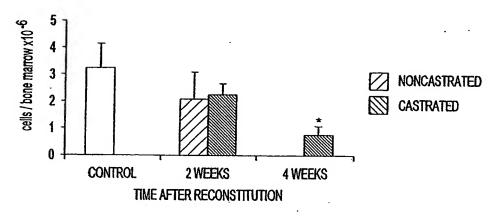
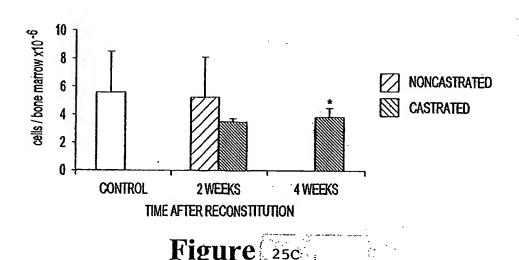


Figure 25B



Boyd APPLICANT: TBD APPLN. NO.:

FILING DATE: December 30, 2003

Disease Prevention by Reactivation of the Thymus DOCKET NO.: NOR-014CP4/286336.153



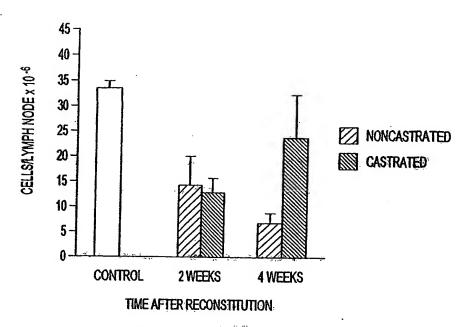


Figure 26A

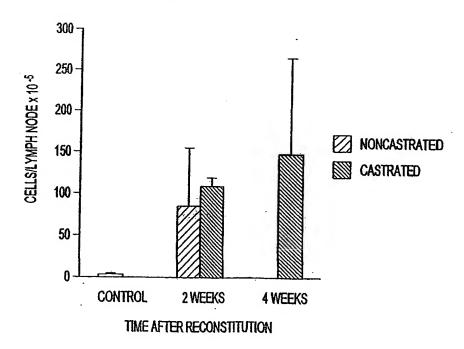
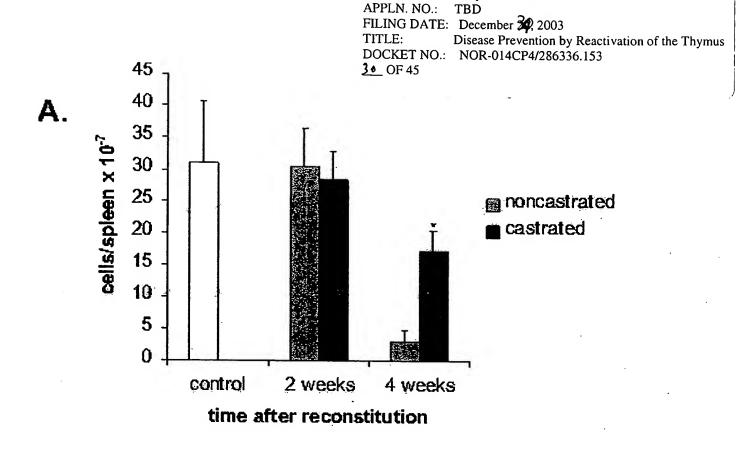


Figure 26B



APPLICANT:

Boyd

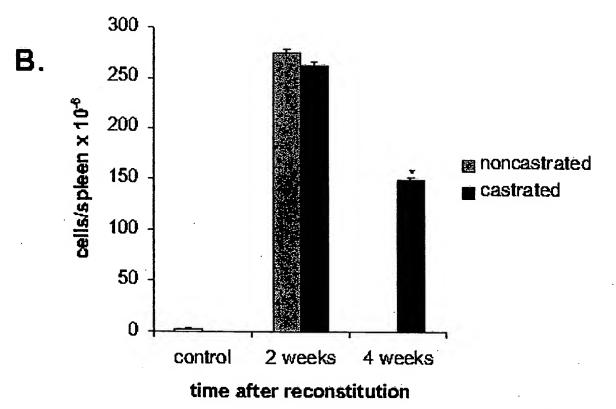
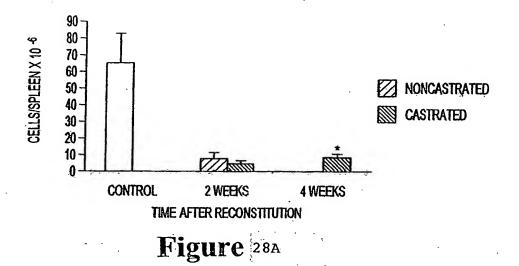


FIGURE 27.

FILING DATE: December 3 2003

TITLE: Disease Prevention by Reactivation of the Thymus DOCKET NO.: NOR-014CP4/286336.153

<u>31</u> OF 45



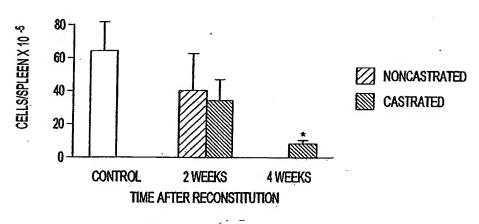
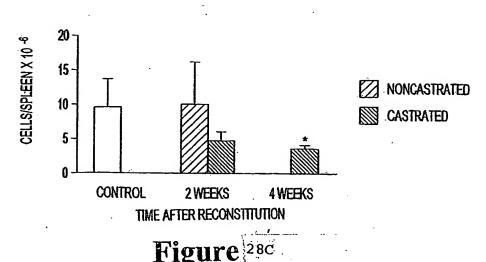


Figure 28B



FILING DATE: December 30, 2003

TITLE: Disease Prevention by Reactivation of the Thymus DOCKET NO.: NOR-014CP4/286336.153

32 OF 45

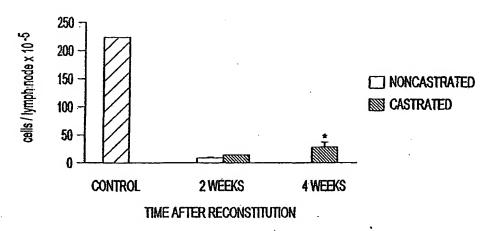


Figure 29A

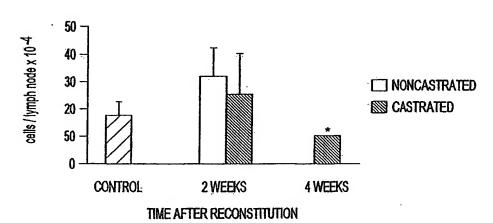
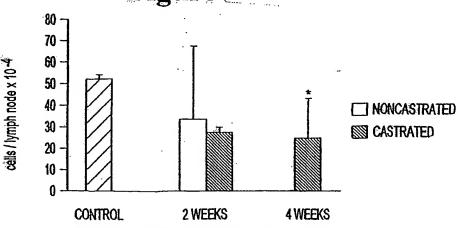


Figure 29B



TIME AFTER RECONSTITUTION

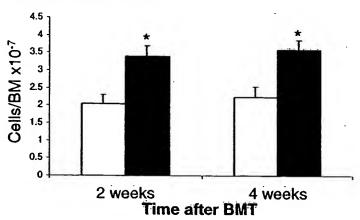
Figure 29c

FILING DATE: December 39, 2003

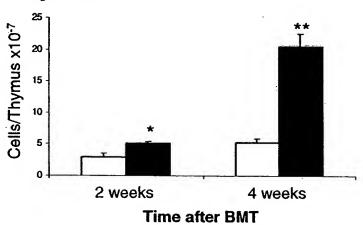
DOCKET NO NOR-014CP4/286336.153

DOCKET NO.: NOR-014CP4/286336.153 33 OF 45





B. Thymus



C. Spleen

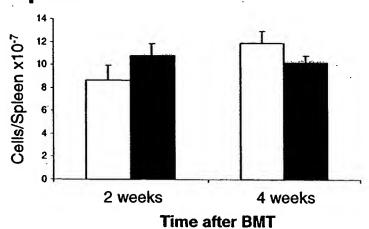


Figure 30

FILING DATE: December 2003 Disease Prevention by Reactivation of the Thymus

TITLE: DOCKET NO.: NOR-014CP4/286336.153

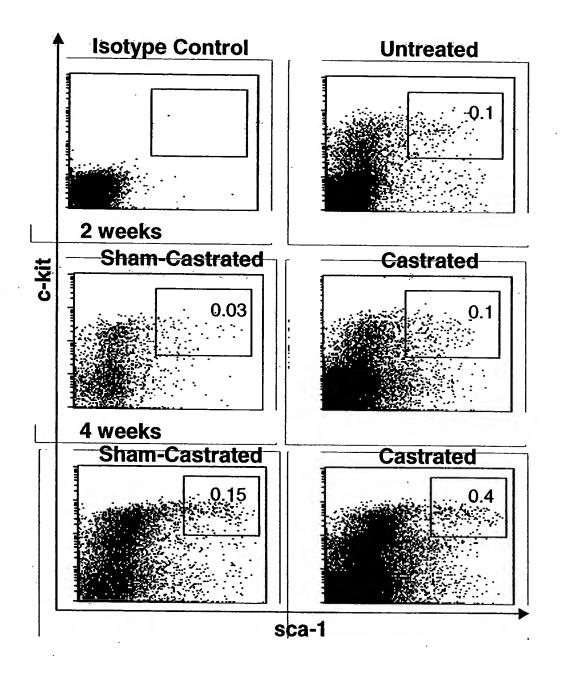
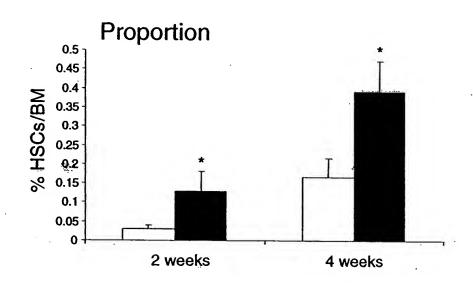


Figure 31

FILING DATE: December 30, 2003

TITLE: Disease Prevention by Reactivation of the Thymus DOCKET NO.: NOR-014CP4/286336.153





B.

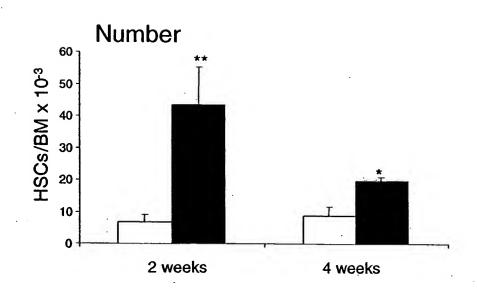


Figure 32

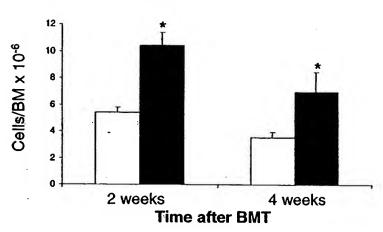
FILING DATE: December 30, 2003

TLE: Disease Prevention by Reactivation of the Thymus

DOCKET NO.: NOR-014CP4/286336.153

36 OF 45

A. B Cell Precursors



B. B Cells

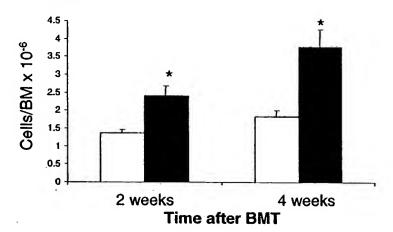


Figure 33

APPLICANT: Boyd TBD APPLN. NO.:

FILING DATE: December 2003
TITLE: Disease Prevention by Reactivation of the Thymus

DOCKET NO.: NOR-014CP4/286336.153 37 OF 45

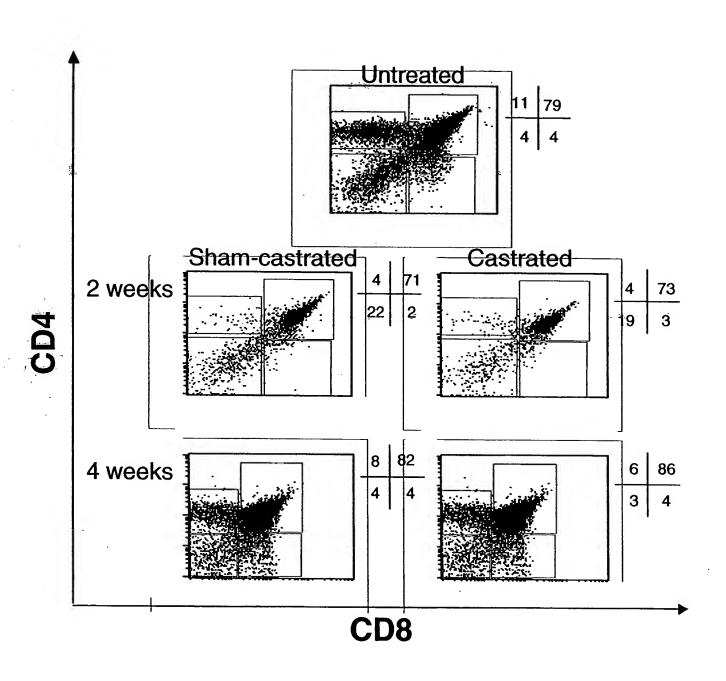
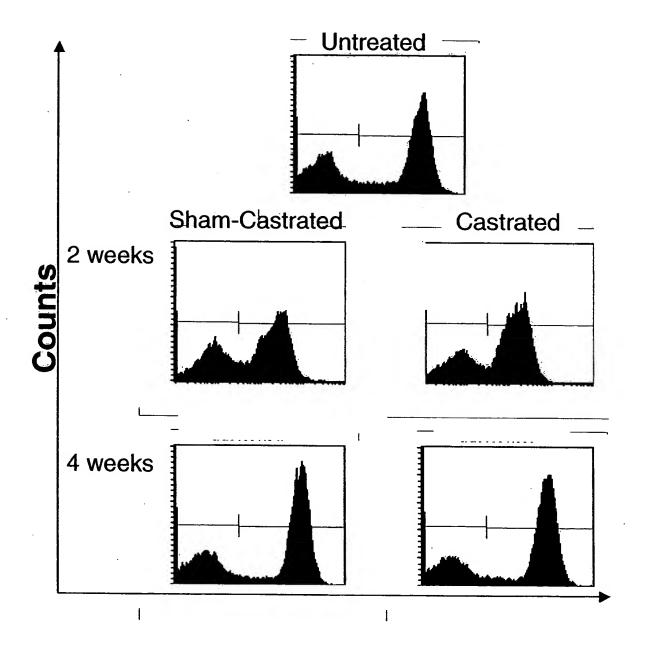


Figure 34

FILING DATE: December 36, 2003

TITLE: Disease Prevention by Reactivation of the Thymus DOCKET NO.: NOR-014CP4/286336.153



APPLICANT: Boyd

APPLN. NO.: TBD

FILING DATE: December 27, 2003

TITLE: DOCKET NO.: NOR-014CP4/286336.153

39 OF 45

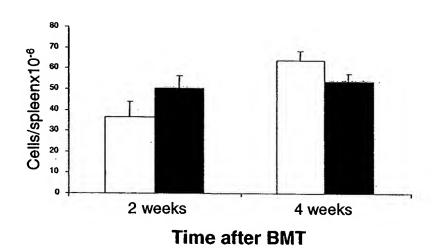
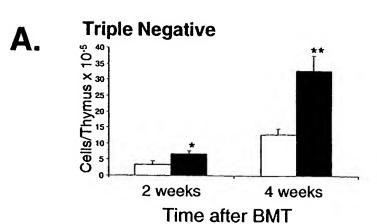


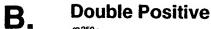
Figure 36

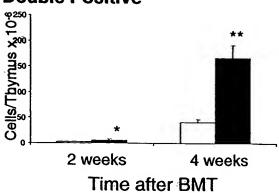


FILING DATE: December 37, 2003

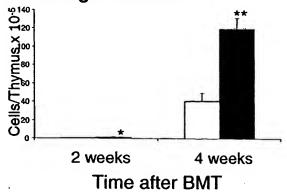
TITLE: Disease Prevention by Reactivation of the Thym DOCKET NO.: NOR-014CP4/286336.153

40 OF 45

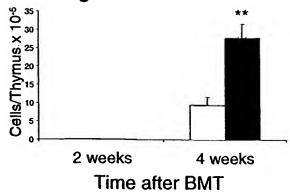




C. CD4 Single Positive



CD8 Single Positive



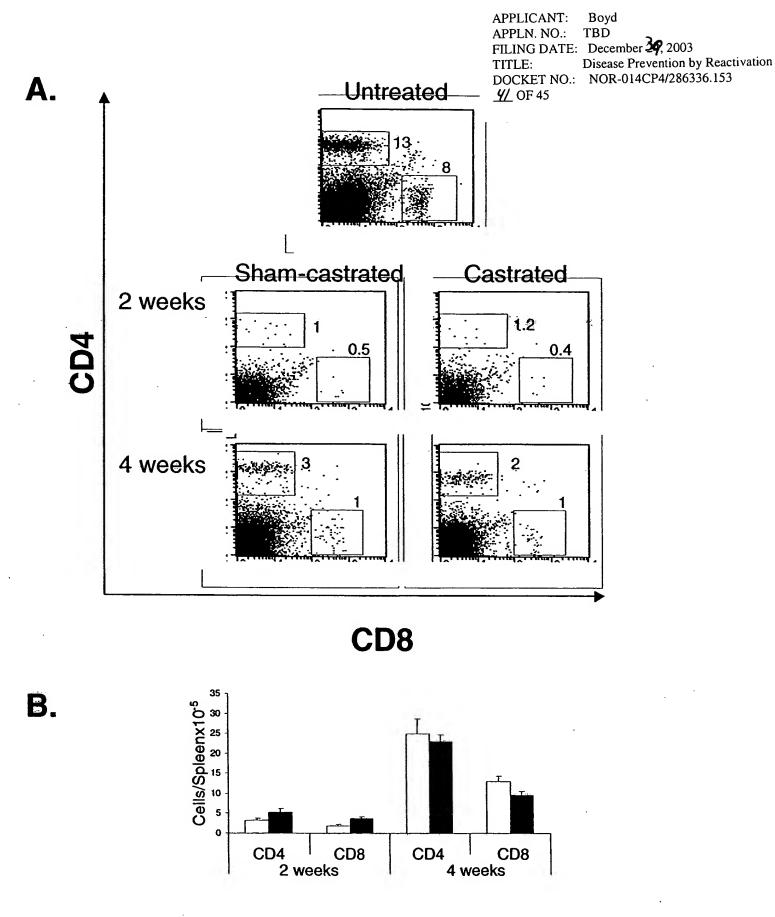


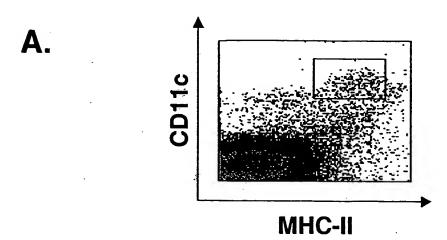
Figure 38

Boyd TBD APPLICANT: APPLN. NO.:

FILING DATE: December 29, 2003
TITLE: Disease Prevention by Reactivation of the Thymus

DOCKET NO.: NOR-014CP4/286336.153

<u>4</u>2 OF 45



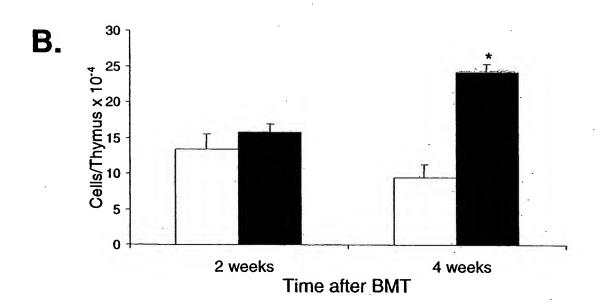


Figure 39

FILING DATE: December 2003

TITLE: Disease Prevention by Reactivation of the Thymus DOCKET NO.: NOR-014CP4/286336.153

<u>43</u> OF 45

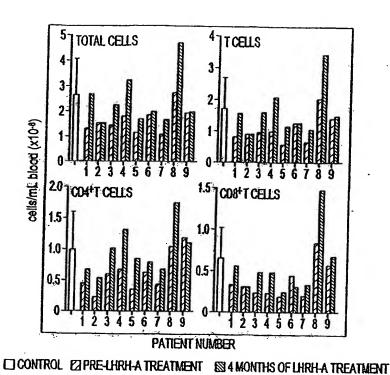
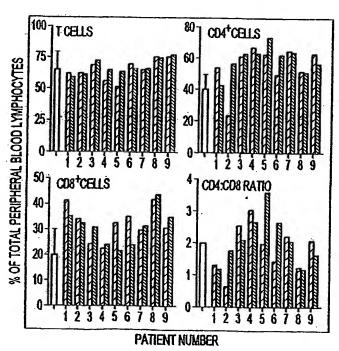


Figure 40

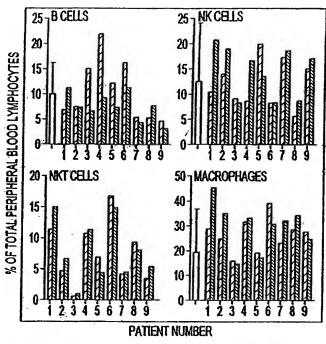


□ CONTROL 12] PRE-LHRH-A TREATMENT 1831 4 MONTHS OF LHRH-A TREATMENT

FILING DATE: December 2003

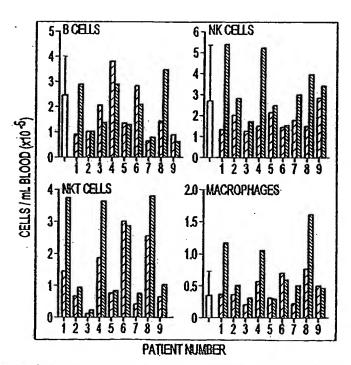
TITLE: Disease Prevention by Reactivation of the Thymus DOCKET NO.: NOR-014CP4/286336.153

<u>44</u> OF 45



☐ CONTROL Ø PRE-LHRHA TREATMENT 🖾 4 MONTHS OF LHRHA TREATMENT

Figure 42



CONTROL DEPRELHRHATREATMENT 1531 4 MONTHS OF LHRHATREATMENT

FILING DATE: December 30, 2003

Disease Prevention by Reactivation of the Thymus

DOCKET NO.: NOR-014CP4/286336.153

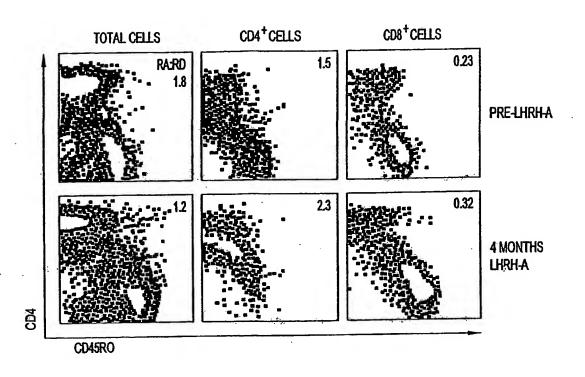
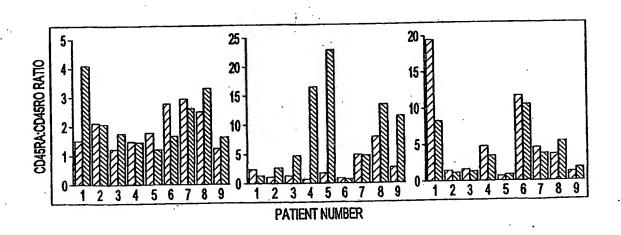


Figure 44A



PRE-TREATMENT

4 MONTHS OF TREATMENT

Figure 44B